

IN THE CLAIMS

Please cancel Claims 9 and 12.

1. (previously presented) An apparatus for supporting fuel assemblies in a reactor pressure vessel including a core, said apparatus comprising:

a plurality of support beams; and

at least one removable support plate disposed on said plurality of support beams, each said removable support plate comprising at least one groove mating with one of said plurality of support beams.

2. (original) The apparatus according to Claim 1 wherein said at least one removable support plate and said plurality of support beams form a core support.

3. (original) The apparatus according to Claim 1 further comprising a support ring having an inner periphery and an outer periphery, said plurality of support beams extending between said inner periphery, said plurality of support beams intersecting one another to form a support beam matrix.

4. (original) The apparatus according to Claim 1 wherein said at least one removable support plate is configured to be removed from above the core.

5. (previously presented) The apparatus according to Claim 1 wherein each of said plurality of support beams comprise a protrusion extending along a length thereof, said protrusion receivable within said at least one groove.

6. (original) The apparatus of Claim 1 wherein said at least one removable support plate comprising at least one support plate flow passage.

7. (previously presented) The apparatus according to Claim 6 wherein said at least one removable support plate comprising at least one removable support block disposed thereon, said

removable support block having at least one support block flow passage in flow communication with one of said at least one support plate flow passage.

8. (previously presented) The apparatus according to Claim 7 wherein said removable support block comprising at least one flow inlet portion extending from one side of said removable support block, said at least one flow inlet portion providing flow communication to one of said at least one support block flow passage, said at least one flow inlet portion receivable within one of said at least one support plate flow passage.

9. (canceled).

10. (currently amended) The ~~support plate~~ apparatus according to Claim ~~[[9]]~~ 1 wherein said support plate further comprises a guide tube opening, said guide tube opening ~~includes~~ comprising at least one cruciform shaped slot, ~~said bottom surface has~~ said support plate further comprising a first groove, a second groove, a third groove and a fourth groove, said first, second, third and fourth grooves located in a bottom surface of said support plate and positioned around said guide tube opening.

11. (currently amended) The ~~support plate~~ apparatus according to Claim 10 wherein at least two of said first groove, second groove, third groove and fourth groove extend along said bottom surface substantially parallel to each other, and

wherein one end of at least one of said first groove, second groove, third groove and fourth groove intersects with one end of at least one of said first groove, second groove, third groove and fourth groove.

12. (canceled).

13. (previously presented) A nuclear reactor comprising:

a reactor pressure vessel;

a reactor core located inside said reactor pressure vessel; and

a core plate located inside said reactor pressure vessel, said core plate comprising:

a plurality of support beams; and

at least one removable support plate disposed on said plurality of support beams, each said removable support plate comprising at least one groove mating with one of said plurality of support beams.

14. (cancelled)

15. (original) The nuclear reactor according to Claim 13 wherein said at least one removable support plate comprises at least one support plate flow passage.

16. (previously presented) The nuclear reactor according to Claim 15 wherein said at least one removable support plate comprises at least one removable support block disposed thereon, said at least one removable support block comprising at least one support block flow passage in flow communication with one of said at least one support plate flow passage.

17. (previously presented) The nuclear reactor according to Claim 16 wherein said at least one removable support block comprises at least one inlet flow projection extending from one side of said at least one removable support block and at least one flow outlet positioned on an opposite side of said at least one removable support block, said at least one inlet flow projection receivable within one of said at least one support plate flow passage.

18. (previously presented) The nuclear reactor according to Claim 17 wherein said at least one removable support block comprises at least one internal flow passage providing flow communication between one of said at least one inlet flow projection and one of said at least one flow outlet.

19. (previously presented) The nuclear reactor according to Claim 18 wherein said at least one internal flow passage directs flow into a first channel and a second channel, said first and second channels located within said at least one removable support block.

20. (original) The nuclear reactor according to Claim 19 wherein said first channel has a first flow outlet and said second channel has a second flow outlet.